abcam

ab282602

Anti-OSMR antibody [EPR24611-108] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR24611-108
Purification technique	Affinity purification Protein A
Concentration	1.025 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ICC/IF

Not recommended

Species	Human, Mouse, Rat
Dilution info	-

Notes	-

Flow Cyt

Tested

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

WB

Not recommended

Species	Mouse, Human, Rat
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

Target data

See full target information OSMR

Function	Associates with IL31RA to form the IL31 receptor. Binds IL31 to activate STAT3 and possibly STAT1 and STAT5. Capable of transducing OSM-specific signaling events.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C

Notes

ab282602 is the carrier-free version of ab282578.

Patented technology

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Conjugation ready

Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility

This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	The Oncostatin M receptor commonly known as OSMR is an important membrane-bound receptor involved in numerous cellular processes. It is part of the type I cytokine receptor family and often forms heterodimers with gp130 to mediate its functions. OSMR has a mass of approximately 115 kDa and predominantly expresses in tissues such as skin lung liver and the nervous system. Alternative

	names for OSMR include Oncostatin-M-specific receptor beta subunit and IL-31 receptor beta.
Biological function summary	OSMR plays a significant role in regulating inflammatory responses and cell growth. It is part of a receptor complex that upon activation triggers intracellular signaling cascades driven by cytokines like Oncostatin M and IL-31. OSMR involvement influences processes including acute phase responses hematopoiesis and nerve cell differentiation. Its action helps mediate the communication between cells to respond to external inflammatory signals effectively.
Pathways	OSMR is actively involved in the JAK/STAT signaling pathway and the MAPK pathway. In JAK/STAT OSMR collaborates with related proteins like gp130 and participates in promoting transcriptional activity of specific genes in response to cytokine signaling. OSMR's engagement in the MAPK pathway influences cellular responses such as proliferation differentiation and apoptosis linking it with proteins such as MAP Kinases that further proceed this signaling cascade.
Associated diseases and disorders	OSMR shows a connection with atopic dermatitis and various cancers. Aberrant OSMR signaling can lead to excessive inflammatory responses contributing to skin conditions like atopic dermatitis often involving IL-31 in the pathway. In cancer elevated OSMR expression correlates with tumorigenesis and progression establishing its interaction with oncogenic proteins in the STAT3 pathway which may promote malignant cell behavior. Through these disease interactions OSMR represents a potential therapeutic target worth exploring.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

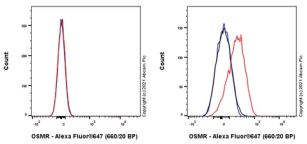
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:

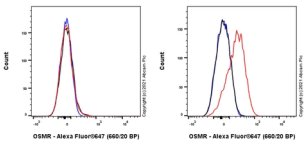
2 product images



Flow Cytometry - Anti-OSMR antibody [EPR24611-108] - BSA and Azide free (ab282602)

OSMR Flow Cytometry staining using rabbit Anti-OSMR antibody

This data was developed using ab282578, the same antibody clone in a different buffer formulation.
Flow cytometric analysis of Jurkat (human T cell leukemia T lymphocyte, Left)/ A375 (Human malignant melanoma epithelial cell, Right) cells labelling OSMR with ab282578 at 1/500 dilution (0.1µg)/(Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). Goat anti rabbit IgG (Alexa Fluor® 647, ab150079) at 1/2000 dilution was used as the secondary antibody. **Negative control**: Jurkat (PMID: 28607076, 8999038). Gated on viable cells.



Flow Cytometry - Anti-OSMR antibody [EPR24611-108] - BSA and Azide free (ab282602)

OSMR Flow Cytometry staining using rabbit Anti-OSMR antibody

This data was developed using ab282578, the same antibody clone in a different buffer formulation.
Flow cytometric analysis of JAR (human placenta choriocarcinoma epithelial cell, Left) /HeLa (Human cervix adenocarcinoma epithelial cell, Right) cells labelling OSMR with ab282578 at 1/500 dilution (0.1µg)/(Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). Goat anti rabbit IgG (Alexa Fluor® 647, ab150079) at 1/2000 dilution was used as the secondary antibody. **Negative control**: JAR (PMID: 8999038, 9188471). Gated on viable cells.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.